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By: Joyce Abriam Printed: Joyce Abriam

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Tang et al.

Title: NEURON-ASSOCIATED PROTEINS

Serial No.: 09/857,826 Filing Date: To Be Assigned

Examiner: To Be Assigned Group Art Unit: To Be Assigned

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United States Patent and Trademark Office  
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Arlington, VA 22202

**SUBSTITUTE SUBMISSION UNDER 37 CFR §1.821- 1.825 SEQUENCE LISTING**

Sir:

In accordance with the requirements of 37 CFR § 1.821-1.825, Applicants hereby submit one (1) substitute diskette containing the computer-readable information for the Substitute Sequence Listing of the above-identified application. The substitute diskette complies with the requirements of 37 CFR § 1.824 and is IBM PC compatible using a Windows NT Operating System with WordPerfect software and saved in ASCII text format.

Enclosed is a paper copy of the Substitute Sequence Listing.

The content of the Substitute Sequence Listing paper copy is identical to the computer-readable copy, as required under 37 CFR § 1.821(f). No new data has been added.

Respectfully submitted,  
INCYTE GENOMICS, INC.

Date: 9 Oct 2002

  
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PF-0637 USN



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YUE, Henry  
BAUGHN, Mariah R.  
HILLMAN, Jennifer L.  
LAL, Preeti  
AU-YOUNG, Janice  
YANG, Junming  
LU, Dyung Aina M.  
AZIMZAI, Yalda

<120> NEURON-ASSOCIATED PROTEINS

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<141> Unassigned

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<151> 1999-02-09

<150> 60/124,687  
<151> 1999-03-16

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35 40 45  
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50 55 60
Glu Glu Leu Ala Ala Phe Ala Lys Ala Tyr Ala Arg Gln Cys Val
65 70 75
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80 85 90
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95 100 105
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110 115 120
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125 130 135
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Gln Gly Val Glu Glu Thr Asn Ile Glu Leu Leu Val Cys Asn Tyr
155 160 165
Glu Pro Pro Gly Asn Val Lys Gly Lys Arg Pro Tyr Gln Glu Gly
170 175 180
Thr Pro Cys Ser Gln Cys Pro Ser Gly Tyr His Cys Lys Asn Ser
185 190 195
Leu Cys Glu Pro Ile Gly Ser Pro Glu Asp Ala Gln Asp Leu Pro

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Ala Leu Pro Ala Val	Glu Thr Gln Ala	Pro Thr Ser Leu Ala Thr
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Lys Asp Pro Pro	Ser Met Ala Thr Glu	Ala Pro Pro Cys Val Thr
275	280	285
Thr Glu Val Pro	Ser Ile Leu Ala Ala	His Ser Leu Pro Ser Leu
290	295	300
Asp Glu Glu Pro	Val Thr Phe Pro Lys	Ser Thr His Val Pro Ile
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Pro Lys Ser Ala	Asp Lys Val Thr Asp	Lys Thr Lys Val Pro Ser
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Ala Thr Ala Asn	Ala Thr Gly Gly	Arg Ala Leu Ala Leu Gln Ser
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 Gly Met Lys Ala Gly Ala Phe Pro Pro Ala Pro Thr Ala Val Pro  
 50 55 60

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														70
														75
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Phe	Ser	Trp	Asp	Asp	Gln	Lys	Val	Arg	Arg	Val	Phe	Val	Arg	Lys
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Val	Tyr	Thr	Ile	Leu	Leu	Ile	Gln	Leu	Leu	Val	Thr	Leu	Ala	Val
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Ala	Asn	Pro	Gly	Trp	Tyr	Trp	Ala	Ser	Tyr	Ala	Val	Phe	Phe	Ala
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														175
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Tyr	Leu	Thr	Gly	Met	Leu	Ser	Ser	Tyr	Tyr	Asn	Thr	Thr	Ser	Val
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Leu	Leu	Cys	Leu	Gly	Ile	Thr	Ala	Leu	Val	Cys	Leu	Ser	Val	Thr
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Val	Phe	Ser	Phe	Gln	Thr	Lys	Phe	Asp	Phe	Thr	Ser	Cys	Gln	Gly
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														235
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Leu	Ala	Ile	Leu	Leu	Pro	Phe	Gln	Tyr	Val	Pro	Trp	Leu	His	Ala
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														250
Val	Tyr	Ala	Ala	Leu	Gly	Ala	Gly	Val	Phe	Thr	Leu	Phe	Leu	Ala
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														265
Leu	Asp	Thr	Gln	Leu	Leu	Met	Gly	Asn	Arg	Arg	His	Ser	Leu	Ser
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														280
Pro	Glu	Glu	Tyr	Ile	Phe	Gly	Ala	Leu	Asn	Ile	Tyr	Leu	Asp	Ile
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Ile	Tyr	Ile	Phe	Thr	Phe	Phe	Leu	Gln	Leu	Phe	Gly	Thr	Asn	Arg
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Leu Glu Ala Gln Asn Gln Glu Arg Arg Lys Ser Lys Ser Gly Ala

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Gln Arg Val Tyr Gln Pro Phe Leu Thr Thr Cys Asp Gly His Arg		
50 55 60		
Ala Cys Ser Thr Tyr Arg Thr Ile Tyr Arg Thr Ala Tyr Arg Arg		
65 70 75		
Ser Pro Gly Leu Ala Pro Ala Arg Pro Arg Tyr Ala Cys Cys Pro		
80 85 90		
Gly Trp Lys Arg Thr Ser Gly Leu Pro Gly Ala Cys Gly Ala Ala		
95 100 105		
Ile Cys Gln Pro Pro Cys Arg Asn Gly Gly Ser Cys Val Gln Pro		
110 115 120		
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Ser Asp Val Asp Glu Cys Ser Ala Arg Arg Gly Gly Cys Pro Gln		
140 145 150		
Arg Cys Val Asn Thr Ala Gly Ser Tyr Trp Cys Gln Cys Trp Glu		
155 160 165		
Gly His Ser Leu Ser Ala Asp Gly Thr Leu Cys Val Pro Lys Gly		
170 175 180		
Gly Pro Pro Arg Val Ala Pro Asn Pro Thr Gly Val Asp Ser Ala		
185 190 195		
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200 205 210		
Glu Glu Lys Leu Gln Leu Val Leu Ala Pro Leu His Ser Leu Ala		
215 220 225		
Ser Gln Ala Leu Glu His Gly Leu Pro Asp Pro Gly Ser Leu Leu		
230 235 240		
Val His Ser Phe Gln Gln Leu Gly Arg Ile Asp Ser Leu Ser Glu		
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Ala	Phe	Trp	Cys	Gln	Pro	His	Ala	Gly	Gly	Leu	Ser	Glu	Ala	Val
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Lys	Phe	Glu	Ser	Glu	Phe	Pro	Ser	Ser	Leu	Thr	Gly	Lys	Val	Ala
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Lys	Lys	Asn	Leu	Pro	Val	Asn	Val	Arg	Trp	Leu	Leu	Cys	Gly	Cys
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Ala	Pro	Val	Glu	Val	Ser	Ser	Ser	Gln	Tyr	Val	Ala	Gln	Ser	Asp
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Gly	Val	Val	His	Gln	Asp	Ser	Ser	Val	Ala	Val	Leu	Pro	Val	Pro
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Asn Gln Gln Ser Val Ser Val Gln Gln Gln Tyr Ser Pro Ala Gln  
140 145 150  
Ser Gln Ala Thr Ile Tyr Tyr Gln Gly Gln Thr Cys Pro Thr Val  
155 160 165  
Tyr Gly Val Thr Ser Pro Tyr Ser Gln Thr Thr Pro Pro Ile Val  
170 175 180  
Gln Ser Tyr Ala Gln Pro Ser Leu Gln Tyr Ile Gln Gly Gln Gln  
185 190 195  
Ile Phe Thr Ala His Pro Gln Gly Val Val Val Gln Pro Ala Ala  
200 205 210  
Ala Val Thr Thr Ile Val Ala Pro Gly Gln Pro Gln Pro Leu Gln  
215 220 225  
Pro Ser Glu Met Val Val Thr Asn Asn Leu Leu Asp Leu Pro Pro  
230 235 240  
Pro Ser Pro Pro Lys Pro Lys Thr Ile Val Leu Pro Pro Asn Trp  
245 250 255  
Lys Thr Ala Arg Asp Pro Glu Gly Lys Ile Tyr Tyr Tyr His Val  
260 265 270  
Ile Thr Arg Gln Thr Gln Trp Asp Pro Pro Thr Trp Glu Ser Pro  
275 280 285  
Gly Asp Asp Ala Ser Leu Glu His Glu Ala Glu Met Asp Leu Gly  
290 295 300  
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305 310 315  
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Leu Asn Pro Tyr Arg Lys Pro Asp Cys Lys Val Gly Arg Ile Thr  
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Gln	Gly	Phe	Ala	Glu	Cys	Leu	Ile	Arg	Leu	Gly	Asp	Ser	Met	Gly
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His	Ala	Cys	Ala	Ser	Gln	Val	Leu	Ser	Gly	Cys	Pro	Glu	Glu	Ala
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Ala	Ala	Val	Trp	Glu	Ser	Leu	Gln	Gln	Glu	Ala	Arg	Gln	Ala	Pro
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Arg	Pro	Asn	Asn	Leu	His	Thr	Leu	Cys	Gly	Ala	Pro	Val	His	Val
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Arg	Glu	Arg	Gly	Thr	Gly	Ser	Lys	Thr	Asn	Gln	Glu	Thr	Leu	Arg
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Ala	Thr	Ala	Pro	Ala	Leu	Pro	Met	Ala	Pro	Ala	Pro	Pro	Leu	Leu
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Lys	Leu	Arg	Phe	Val	Leu	Thr	Tyr	Ile	Ala	Pro	Trp	Gln	Ile	Thr
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Trp	Gly	Ser	Ala	Phe	His	Ala	Phe	Ala	Gln	Pro	Phe	Ala	Val	Pro
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His	Ser	Ala	Met	Leu	Phe	Val	Gln	Ala	Leu	Leu	Ser	Gly	Leu	Phe
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Ser	Thr	Pro	Leu	Asn	Pro	Leu	Leu	Gly	Ser	Ala	Val	Phe	Ile	Met
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														345
335														
Ser	Asp	Pro	Thr	Phe	Ser	Leu	Ser	Val	Asp	Glu	Asp	Tyr	Asp	Leu
														360
350														
Arg	Leu	Ser	Gly	Leu	Ser	Leu	Pro	Ser	Phe	Cys	Ala	Val	His	Leu
														375
365														
Glu	Trp	Ile	Gln	Tyr	Cys	Ala	Ser	Arg	Arg	Thr	Arg	Pro	Val	Asp
														390
380														
Gln	Asp	Trp	Asn	Ser	Pro	Leu	Val	Thr	Leu	Cys	Phe	Gly	Leu	Cys
														405
395														
Val	Leu	Gly	Arg	Arg	Ala	Leu	Gly	Thr	Ala	Ser	His	Ser	Met	Ser
														420
410														
Ala	Ser	Leu	Glu	Pro	Phe	Leu	Tyr	Gly	Leu	His	Ala	Leu	Phe	Lys
														435
425														
Gly	Asp	Phe	Arg	Ile	Thr	Ser	Pro	Arg	Asp	Glu	Trp	Val	Phe	Ala
														450
440														
Asp	Met	Asp	Leu	Leu	His	Arg	Val	Val	Ala	Pro	Gly	Val	Arg	Met
														465
455														
Ala	Leu	Lys	Leu	His	Gln	Asp	His	Phe	Thr	Ser	Pro	Asp	Glu	Tyr
														480
470														
Glu	Glu	Pro	Ala	Ala	Leu	Tyr	Asp	Ala	Ile	Ala	Ala	Asn	Glu	Glu
														495
485														
Arg	Leu	Val	Ile	Ser	His	Glu	Gly	Asp	Pro	Ala	Trp	Arg	Ser	Ala
														510
500														
Ile	Leu	Ser	Asn	Thr	Pro	Ser	Leu	Leu	Ala	Leu	Arg	His	Val	Leu
														525
515														
Asp	Asp	Ala	Ser	Asp	Glu	Tyr	Lys	Ile	Ile	Met	Leu	Asn	Arg	Arg
														540
530														
His	Leu	Ser	Phe	Arg	Val	Ile	Lys	Val	Asn	Arg	Glu	Cys	Val	Arg
														555
545														
Gly	Leu	Trp	Ala	Gly	Gln	Gln	Glu	Leu	Val	Phe	Leu	Arg	Asn	
560														570
565														

Arg Asn Pro Glu Arg Gly Ser Ile Gln Asn Ala Lys Gln Ala Leu  
       575                     580                     585  
 Arg Asn Met Ile Asn Ser Ser Cys Asp Gln Pro Leu Gly Tyr Pro  
       590                     595                     600  
 Ile Tyr Val Ser Pro Leu Thr Thr Ser Leu Ala Gly Ser His Pro  
       605                     610                     615  
 Gln Leu Arg Ala Leu Trp Gly Gly Pro Ile Ser Leu Gly Ala Ile  
       620                     625                     630  
 Ala His Trp Leu Leu Arg Thr Trp Glu Arg Leu His Lys Gly Cys  
       635                     640                     645  
 Gly Ala Gly Cys Asn Ser Gly Gly Asn Val Asp Asp Ser Asp Cys  
       650                     655                     660  
 Ser Gly Gly Gly Leu Thr Ser Leu Ser Asn Asn Pro Pro Val  
       665                     670                     675  
 Ala His Pro Thr Pro Glu Asn Thr Ala Gly Asn Gly Asp Gln Pro  
       680                     685                     690  
 Leu Pro Pro Gly Pro Gly Trp Gly Pro Arg Ser Ser Leu Ser Gly  
       695                     700                     705  
 Ser Gly Asp Gly Arg Pro Pro Pro Leu Leu Gln Trp Pro Pro Pro  
       710                     715                     720  
 Arg Leu Pro Gly Pro Pro Pro Ala Ser Pro Ile Pro Thr Glu Gly  
       725                     730                     735  
 Pro Arg Thr Ser Arg Pro Pro Gly Pro Gly Leu Leu Ser Ser Glu  
       740                     745                     750  
 Gly Pro Ser Gly Lys Trp Ser Leu Gly Gly Arg Lys Gly Leu Gly  
       755                     760                     765  
 Gly Ser Asp Gly Glu Pro Ala Ser Gly Ser Pro Lys Gly Gly Thr  
       770                     775                     780  
 Pro Lys Ser Gln Val Arg His Leu Trp Glu Gly Trp Val Pro Glu  
       785                     790                     795  
 Gly

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<220>  
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Met Lys Cys Leu Tyr Tyr Leu Tyr Ala Ser Leu Asp Pro Asn Ala  
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 Val Lys Ala Leu Asn Glu Met Trp Lys Cys Gln Asn Met Leu Arg  
   20                     25                     30  
 Ile His Val Arg Glu Leu Leu Asp Leu His Lys Gln Pro Thr Ser  
   35                     40                     45  
 Glu Ala Asn Cys Ser Ala Met Phe Gly Lys Leu Met Thr Ile Ala  
   50                     55                     60  
 Lys Asn Leu Pro Asp Pro Gly Lys Ala Gln Asp Phe Val Lys Lys  
   65                     70                     75  
 Phe Asn Gln Val Leu Gly Asp Asp Glu Lys Leu Arg Ser Gln Leu

80	85	90												
Glu	Leu	Leu	Ile	Ser	Pro	Thr	Cys	Ser	Cys	Lys	Gln	Ala	Asp	Ile
95									100					105
Cys	Val	Arg	Glu	Ile	Ala	Arg	Lys	Leu	Ala	Asn	Pro	Lys	Gln	Pro
110									115					120
Thr	Asn	Pro	Phe	Leu	Glu	Met	Val	Lys	Phe	Leu	Leu	Glu	Arg	Ile
125									130					135
Ala	Pro	Val	His	Ile	Asp	Ser	Glu	Ala	Ile	Ser	Ala	Leu	Val	Lys
140									145					150
Leu	Met	Asn	Lys	Ser	Ile	Glu	Gly	Thr	Ala	Asp	Asp	Glu	Glu	Glu
155									160					165
Gly	Val	Ser	Pro	Asp	Thr	Ala	Ile	Arg	Ser	Gly	Leu	Glu	Leu	Leu
170									175					180
Lys	Val	Leu	Ser	Phe	Thr	His	Pro	Thr	Ser	Phe	His	Ser	Ala	Glu
185									190					195
Thr	Tyr	Glu	Ser	Leu	Leu	Gln	Cys	Leu	Arg	Met	Glu	Asp	Asp	Lys
200									205					210
Val	Ala	Glu	Ala	Ala	Ile	Gln	Ile	Phe	Arg	Asn	Thr	Gly	His	Lys
215									220					225
Ile	Glu	Thr	Asp	Leu	Pro	Gln	Ile	Arg	Ser	Thr	Leu	Ile	Pro	Ile
230									235					240
Leu	His	Gln	Lys	Ala	Lys	Arg	Gly	Thr	Pro	His	Gln	Ala	Lys	Gln
245									250					255
Ala	Val	His	Cys	Ile	His	Ala	Ile	Phe	Thr	Asn	Lys	Glu	Val	Gln
260									265					270
Leu	Ala	Gln	Ile	Phe	Glu	Pro	Leu	Ser	Arg	Ser	Leu	Asn	Ala	Asp
275									280					285
Val	Pro	Glu	Gln	Leu	Ile	Thr	Pro	Leu	Val	Ser	Leu	Gly	His	Ile
290									295					300
Ser	Met	Leu	Ala	Pro	Asp	Gln	Phe	Ala	Ser	Pro	Met	Lys	Ser	Val
305									310					315
Val	Ala	Asn	Phe	Ile	Val	Lys	Asp	Leu	Leu	Met	Asn	Asp	Arg	Ser
320									325					330
Thr	Gly	Glu	Lys	Asn	Gly	Lys	Leu	Trp	Ser	Pro	Asp	Glu	Glu	Val
335									340					345
Ser	Pro	Glu	Val	Leu	Ala	Lys	Val	Gln	Ala	Ile	Lys	Leu	Leu	Val
350									355					360
Arg	Trp	Leu	Leu	Gly	Met	Lys	Asn	Asn	Gln	Ser	Lys	Ser	Ala	Asn
365									370					375
Ser	Thr	Leu	Arg	Leu	Leu	Ser	Ala	Met	Leu	Val	Ser	Glu	Gly	Asp
380									385					390
Leu	Thr	Glu	Gln	Lys	Arg	Ile	Ser	Lys	Ser	Asp	Met	Ser	Arg	Leu
395									400					405
Arg	Leu	Ala	Ala	Gly	Ser	Ala	Ile	Met	Lys	Leu	Ala	Gln	Glu	Pro
410									415					420
Cys	Tyr	His	Glu	Ile	Ile	Thr	Pro	Glu	Gln	Phe	Gln	Leu	Cys	Ala
425									430					435
Leu	Val	Ile	Asn	Asp	Glu	Cys	Tyr	Gln	Val	Arg	Gln	Ile	Phe	Ala
440									445					450
Gln	Lys	Leu	His	Lys	Ala	Leu	Val	Lys	Leu	Leu	Leu	Pro	Leu	Glu
455									460					465
Tyr	Met	Ala	Ile	Phe	Ala	Leu	Cys	Ala	Lys	Asp	Pro	Val	Lys	Glu
470									475					480
Arg	Arg	Ala	His	Ala	Arg	Gln	Cys	Leu	Leu	Lys	Asn	Ile	Ser	Ile

485	490	495
Arg Arg Glu Tyr Ile Lys Gln Asn Pro Met Ala Thr Glu Lys Leu		
500	505	510
Leu Ser Leu Leu Pro Glu Tyr Val Val Pro Tyr Met Ile His Leu		
515	520	525
Leu Ala His Asp Pro Asp Phe Thr Arg Ser Gln Asp Val Asp Gln		
530	535	540
Leu Arg Asp Ile Lys Glu Cys Leu Trp Phe Met Leu Glu Val Leu		
545	550	555
Met Thr Lys Asn Glu Asn Asn Ser His Ala Phe Met Lys Lys Met		
560	565	570
Ala Glu Asn Ile Lys Leu Thr Arg Asp Ala Gln Ser Pro Asp Glu		
575	580	585
Ser Lys Thr Asn Glu Lys Leu Tyr Thr Val Cys Asp Val Ala Leu		
590	595	600
Cys Val Ile Asn Ser Lys Ser Ala Leu Cys Asn Ala Asp Ser Pro		
605	610	615
Lys Asp Pro Val Leu Pro Met Lys Phe Phe Thr Gln Pro Glu Lys		
620	625	630
Asp Phe Cys Asn Asp Lys Ser Tyr Ile Ser Glu Glu Thr Arg Val		
635	640	645
Leu Leu Leu Thr Gly Lys Pro Lys Pro Ala Gly Val Leu Gly Ala		
650	655	660
Val Asn Lys Pro Leu Ser Ala Thr Gly Arg Lys Pro Tyr Val Arg		
665	670	675
Ser Thr Gly Thr Glu Thr Gly Ser Asn Ile Asn Val Asn Ser Glu		
680	685	690
Leu Asn Pro Ser Thr Gly Asn Arg Ser Arg Glu Gln Ser Ser Glu		
695	700	705
Ala Ala Glu Thr Gly Val Ser Glu Asn Glu Glu Asn Pro Val Arg		
710	715	720
Ile Ile Ser Val Thr Pro Val Lys Asn Ile Asp Pro Val Lys Asn		
725	730	735
Lys Glu Ile Asn Ser Asp Gln Ala Thr Gln Gly Asn Ile Ser Ser		
740	745	750
Asp Arg Gly Lys Lys Arg Thr Val Thr Ala Ala Gly Ala Glu Asn		
755	760	765
Ile Gln Gln Lys Thr Asp Glu Lys Val Asp Glu Ser Gly Pro Pro		
770	775	780
Ala Pro Ser Lys Pro Arg Arg Gly Arg Arg Pro Lys Ser Glu Ser		
785	790	795
Gln Gly Asn Ala Thr Lys Asn Asp Asp Leu Asn Lys Pro Ile Asn		
800	805	810
Lys Gly Arg Lys Arg Ala Ala Val Gly Gln Glu Ser Pro Gly Gly		
815	820	825
Leu Glu Ala Gly Asn Ala Lys Ala Pro Lys Leu Gln Asp Leu Ala		
830	835	840
Lys Lys Ala Ala Pro Ala Glu Arg Gln Ile Asp Leu Gln Arg		
845	850	

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&lt;211&gt; 856

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

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Met	Arg	Gly	Ile	Phe	Ile	Lys	His	Val	Leu	Glu	Asp	Ser	Pro	Ala
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Gly	Lys	Asn	Gly	Thr	Leu	Lys	Pro	Gly	Asp	Arg	Ile	Val	Glu	Val
				20				25						30
Asp	Gly	Met	Asp	Leu	Arg	Asp	Ala	Ser	His	Glu	Gln	Ala	Val	Glu
					35			40						45
Ala	Ile	Arg	Lys	Ala	Gly	Asn	Pro	Val	Val	Phe	Met	Val	Gln	Ser
					50			55						60
Ile	Ile	Asn	Arg	Pro	Arg	Ala	Pro	Ser	Gln	Ser	Glu	Ser	Glu	Pro
					65			70						75
Glu	Lys	Ala	Pro	Leu	Cys	Ser	Val	Pro	Pro	Pro	Pro	Pro	Ser	Ala
					80			85						90
Phe	Ala	Glu	Met	Gly	Ser	Asp	His	Thr	Gln	Ser	Ser	Ala	Ser	Lys
					95			100						105
Ile	Ser	Gln	Asp	Val	Asp	Lys	Glu	Asp	Glu	Phe	Gly	Tyr	Ser	Trp
					110			115						120
Lys	Asn	Ile	Arg	Glu	Arg	Tyr	Gly	Thr	Leu	Thr	Gly	Glu	Leu	His
					125			130						135
Met	Ile	Glu	Leu	Glu	Lys	Gly	His	Ser	Gly	Leu	Gly	Leu	Ser	Leu
					140			145						150
Ala	Gly	Asn	Lys	Asp	Arg	Ser	Arg	Met	Ser	Val	Phe	Ile	Val	Gly
					155			160						165
Ile	Asp	Pro	Asn	Gly	Ala	Ala	Gly	Lys	Asp	Gly	Arg	Leu	Gln	Ile
					170			175						180
Ala	Asp	Glu	Leu	Leu	Glu	Ile	Asn	Gly	Gln	Ile	Leu	Tyr	Gly	Arg
					185			190						195
Ser	His	Gln	Asn	Ala	Ser	Ser	Ile	Ile	Lys	Cys	Ala	Pro	Ser	Lys
					200			205						210
Val	Lys	Ile	Ile	Phe	Ile	Arg	Asn	Lys	Asp	Ala	Val	Asn	Gln	Met
					215			220						225
Ala	Val	Cys	Pro	Gly	Asn	Ala	Val	Glu	Pro	Leu	Pro	Ser	Asn	Ser
					230			235						240
Glu	Asn	Leu	Gln	Asn	Lys	Glu	Thr	Glu	Pro	Thr	Val	Thr	Thr	Ser
					245			250						255
Asp	Ala	Ala	Val	Asp	Leu	Ser	Ser	Phe	Lys	Asn	Val	Gln	His	Leu
					260			265						270
Glu	Leu	Pro	Lys	Asp	Gln	Gly	Gly	Leu	Gly	Ile	Ala	Ile	Ser	Glu
					275			280						285
Glu	Asp	Thr	Leu	Ser	Gly	Val	Ile	Ile	Lys	Ser	Leu	Thr	Glu	His
					290			295						300
Gly	Val	Ala	Ala	Thr	Asp	Gly	Arg	Leu	Lys	Val	Gly	Asp	Gln	Ile
					305			310						315
Leu	Ala	Val	Asp	Asp	Glu	Ile	Val	Val	Gly	Tyr	Pro	Ile	Glu	Lys
					320			325						330
Phe	Ile	Ser	Leu	Leu	Lys	Thr	Ala	Lys	Met	Thr	Val	Lys	Leu	Thr
					335			340						345
Ile	His	Ala	Glu	Asn	Pro	Asp	Ser	Gln	Ala	Val	Pro	Ser	Ala	Ala
					350			355						360

Gly Ala Ala Ser Gly Glu Lys Lys Asn Ser Ser Gln Ser Leu Met  
                   365                  370                  375  
 Val Pro Gln Ser Gly Ser Pro Glu Pro Glu Ser Ile Arg Asn Thr  
                   380                  385                  390  
 Ser Arg Ser Ser Thr Pro Ala Ile Phe Ala Ser Asp Pro Ala Thr  
                   395                  400                  405  
 Cys Pro Ile Ile Pro Gly Cys Glu Thr Thr Ile Glu Ile Ser Lys  
                   410                  415                  420  
 Gly Arg Thr Gly Leu Gly Leu Ser Ile Val Gly Gly Ser Asp Thr  
                   425                  430                  435  
 Leu Leu Gly Ala Ile Ile Ile His Glu Val Tyr Glu Glu Gly Ala  
                   440                  445                  450  
 Ala Cys Lys Asp Gly Arg Leu Trp Ala Gly Asp Gln Ile Leu Glu  
                   455                  460                  465  
 Val Asn Gly Ile Asp Leu Arg Lys Ala Thr His Asp Glu Ala Ile  
                   470                  475                  480  
 Asn Val Leu Arg Gln Thr Pro Gln Arg Val Arg Leu Thr Leu Tyr  
                   485                  490                  495  
 Arg Asp Glu Ala Pro Tyr Lys Glu Glu Glu Val Cys Asp Thr Leu  
                   500                  505                  510  
 Thr Ile Glu Leu Gln Lys Lys Pro Gly Lys Gly Leu Gly Leu Ser  
                   515                  520                  525  
 Ile Val Gly Lys Arg Asn Asp Thr Gly Val Phe Val Ser Asp Ile  
                   530                  535                  540  
 Val Lys Gly Gly Ile Ala Asp Ala Asp Gly Arg Leu Met Gln Gly  
                   545                  550                  555  
 Asp Gln Ile Leu Met Val Asn Gly Glu Asp Val Arg Asn Ala Thr  
                   560                  565                  570  
 Gln Glu Ala Val Ala Ala Leu Leu Lys Cys Ser Leu Gly Thr Val  
                   575                  580                  585  
 Thr Leu Glu Val Gly Arg Ile Lys Ala Gly Pro Phe His Ser Glu  
                   590                  595                  600  
 Arg Arg Pro Ser Gln Ser Ser Gln Val Ser Glu Gly Ser Leu Ser  
                   605                  610                  615  
 Ser Phe Thr Phe Pro Leu Ser Gly Ser Ser Thr Ser Glu Ser Leu  
                   620                  625                  630  
 Glu Ser Ser Ser Lys Lys Asn Ala Leu Ala Ser Glu Ile Gln Gly  
                   635                  640                  645  
 Leu Arg Thr Val Glu Met Lys Lys Gly Pro Thr Asp Ser Leu Gly  
                   650                  655                  660  
 Ile Ser Ile Ala Gly Gly Val Gly Ser Pro Leu Gly Asp Val Pro  
                   665                  670                  675  
 Ile Phe Ile Ala Met Met His Pro Thr Gly Val Ala Ala Gln Thr  
                   680                  685                  690  
 Gln Lys Leu Arg Val Gly Asp Arg Ile Val Thr Ile Cys Gly Thr  
                   695                  700                  705  
 Ser Thr Glu Gly Met Thr His Thr Gln Ala Val Asn Leu Leu Lys  
                   710                  715                  720  
 Asn Ala Ser Gly Ser Ile Glu Met Gln Val Val Ala Gly Gly Asp  
                   725                  730                  735  
 Val Ser Val Val Thr Gly His Gln Gln Glu Pro Ala Ser Ser Ser  
                   740                  745                  750  
 Leu Ser Phe Thr Gly Leu Thr Ser Ser Ile Phe Gln Asp Asp  
                   755                  760                  765

PF-0637 USN

Leu Gly Pro Pro Gln Cys Lys Ser Ile Thr Leu Glu Arg Gly Pro  
770 775 780  
Asp Gly Leu Gly Phe Ser Ile Val Gly Gly Tyr Gly Ser Pro His  
785 790 795  
Gly Asp Leu Pro Ile Tyr Val Lys Thr Val Phe Ala Lys Gly Ala  
800 805 810  
Ala Ser Glu Asp Gly Arg Leu Lys Arg Gly Asp Gln Ile Ile Ala  
815 820 825  
Val Asn Gly Gln Ser Leu Glu Gly Val Thr His Glu Glu Ala Val  
830 835 840  
Ala Ile Leu Lys Arg Thr Lys Gly Thr Val Thr Leu Met Val Leu  
845 850 855  
Ser

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<213> Homo sapiens

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Met Glu Thr Gly Ala Ala Glu Leu Tyr Asp Gln Ala Leu Leu Gly  
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Ile Leu Gln His Val Gly Asn Val Gln Asp Phe Leu Arg Val Leu  
20 25 30  
Phe Gly Phe Leu Tyr Arg Lys Thr Asp Phe Tyr Arg Leu Leu Arg  
35 40 45  
His Pro Ser Asp Arg Met Gly Phe Pro Pro Gly Ala Ala Gln Ala  
50 55 60  
Leu Val Leu Gln Val Phe Lys Thr Phe Asp His Met Ala Arg Gln  
65 70 75  
Asp Asp Glu Lys Arg Arg Gln Glu Leu Glu Glu Lys Ile Arg Arg  
80 85 90  
Lys Glu Glu Glu Ala Lys Thr Val Ser Ala Ala Ala Ala Glu  
95 100 105  
Lys Glu Pro Val Pro Val Gln Glu Ile Glu Ile Asp Ser  
110 115 120  
Thr Thr Glu Leu Asp Gly His Gln Glu Val Glu Lys Val Gln Pro  
125 130 135  
Pro Gly Pro Val Lys Glu Met Ala His Gly Ser Gln Glu Ala Glu  
140 145 150  
Ala Pro Gly Ala Val Ala Gly Ala Ala Glu Val Pro Arg Glu Pro  
155 160 165  
Pro Ile Leu Pro Arg Ile Gln Glu Gln Phe Gln Lys Asn Pro Asp  
170 175 180  
Ser Tyr Asn Gly Ala Val Arg Glu Asn Tyr Thr Trp Ser Gln Asp  
185 190 195  
Tyr Thr Asp Leu Glu Val Arg Val Pro Val Pro Lys His Val Val  
200 205 210  
Lys Gly Lys Gln Val Ser Val Ala Leu Ser Ser Ser Ser Ile Arg

	215	220	225											
Val	Ala	Met	Leu	Glu	Glu	Asn	Gly	Glu	Arg	Val	Leu	Met	Glu	Gly
				230				235						240
Lys	Leu	Thr	His	Lys	Ile	Asn	Thr	Glu	Ser	Ser	Leu	Trp	Ser	Leu
				245				250						255
Glu	Pro	Gly	Lys	Cys	Val	Leu	Val	Asn	Leu	Ser	Lys	Val	Gly	Glu
				260				265						270
Tyr	Trp	Trp	Asn	Ala	Ile	Leu	Glu	Gly	Glu	Glu	Pro	Ile	Asp	Ile
				275				280						285
Asp	Lys	Ile	Asn	Lys	Glu	Arg	Ser	Met	Ala	Thr	Val	Asp	Glu	Glu
				290				295						300
Glu	Gln	Ala	Val	Leu	Asp	Arg	Leu	Thr	Phe	Asp	Tyr	His	Gln	Lys
				305				310						315
Leu	Gln	Gly	Lys	Pro	Gln	Ser	His	Glu	Leu	Lys	Val	His	Glu	Met
				320				325						330
Leu	Lys	Lys	Gly	Trp	Asp	Ala	Glu	Gly	Ser	Pro	Phe	Arg	Gly	Gln
				335				340						345
Arg	Phe	Asp	Pro	Ala	Met	Phe	Asn	Ile	Ser	Pro	Gly	Ala	Val	Gln
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Phe														

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Asn	Tyr	Ile	Asp	Asn	Val	Gly	Asn	Leu	His	Phe	Leu	Tyr	Ser	Glu
							20				25			30
Leu	Cys	Lys	Gly	Ala	Ser	His	Tyr	Gly	Leu	Thr	Lys	Asp	Arg	Lys
							35				40			45
Arg	Arg	Ser	Gln	Asp	Gly	Cys	Pro	Asp	Gly	Cys	Ala	Ser	Leu	Thr
							50				55			60
Ala	Thr	Ala	Pro	Ser	Pro	Glu	Val	Ser	Ala	Ala	Ala	Thr	Ile	Ser
							65				70			75
Leu	Met	Thr	Asp	Glu	Pro	Gly	Leu	Asp	Asn	Pro	Ala	Tyr	Val	Ser
							80				85			90
Ser	Ala	Glu	Asp	Gly	Gln	Pro	Ala	Ile	Ser	Pro	Val	Asp	Ser	Gly
							95				100			105
Arg	Ser	Asn	Arg	Thr	Arg	Ala	Arg	Pro	Phe	Glu	Arg	Ser	Thr	Ile
							110				115			120
Arg	Ser	Arg	Ser	Phe	Lys	Lys	Ile	Asn	Arg	Ala	Leu	Ser	Val	Leu
							125				130			135
Arg	Arg	Thr	Lys	Ser	Gly	Ser	Ala	Val	Ala	Asn	His	Ala	Asp	Gln
							140				145			150
Gly	Arg	Glu	Asn	Ser	Glu	Asn	Ile	Thr	Ala	Pro	Glu	Val	Phe	Pro
							155				160			165

Arg Leu Tyr His Leu Ile Pro Asp Gly Glu Ile Thr Ser Ile Lys  
 170 175 180  
 Ile Asn Arg Val Asp Pro Ser Glu Ser Leu Ser Ile Arg Leu Val  
 185 190 195  
 Gly Gly Ser Glu Thr Pro Leu Val His Ile Ile Ile Gln His Ile  
 200 205 210  
 Tyr Arg Asp Gly Val Ile Ala Arg Asp Gly Arg Leu Leu Pro Gly  
 215 220 225  
 Asp Ile Ile Leu Lys Val Asn Gly Met Asp Ile Ser Asn Val Pro  
 230 235 240  
 His Asn Tyr Ala Val Arg Leu Leu Arg Gln Pro Cys Gln Val Leu  
 245 250 255  
 Trp Leu Thr Val Met Arg Glu Gln Lys Phe Arg Ser Arg Asn Asn  
 260 265 270  
 Gly Gln Ala Pro Asp Ala Tyr Arg Pro Arg Asp Asp Ser Phe His  
 275 280 285  
 Val Ile Leu Asn Lys Ser Ser Pro Glu Glu Gln Leu Gly Ile Lys  
 290 295 300  
 Leu Val Arg Lys Val Asp Glu Pro Gly Val Phe Ile Phe Asn Val  
 305 310 315  
 Leu Asp Gly Gly Val Ala Tyr Arg His Gly Gln Leu Glu Glu Asn  
 320 325 330  
 Asp Arg Val Leu Ala Ile Asn Gly His Asp Leu Arg Tyr Gly Ser  
 335 340 345  
 Pro Glu Ser Ala Ala His Leu Ile Gln Ala Ser Glu Arg Arg Val  
 350 355 360  
 His Leu Val Val Ser Arg Gln Val Arg Gln Arg Ser Pro Asp Ile  
 365 370 375  
 Phe Gln Glu Ala Gly Trp Asn Ser Asn Gly Ser Trp Ser Pro Gly  
 380 385 390  
 Pro Gly Glu Arg Ser Asn Thr Pro Lys Pro Leu His Pro Thr Ile  
 395 400 405  
 Thr Cys His Glu Lys Val Val Asn Ile Gln Lys Asp Pro Gly Glu  
 410 415 420  
 Ser Leu Gly Met Ala Val Ala Gly Gly Ala Ser His Arg Glu Trp  
 425 430 435  
 Asp Leu Pro Ile Tyr Val Ile Ser Val Glu Pro Gly Gly Val Ile  
 440 445 450  
 Ser Arg Asp Gly Arg Ile Lys Thr Gly Asp Ile Leu Leu Asn Val  
 455 460 465  
 Asp Gly Val Glu Leu Thr Glu Val Ser Arg Ser Glu Ala Val Ala  
 470 475 480  
 Leu Leu Lys Arg Thr Ser Ser Ile Val Leu Lys Ala Leu Glu  
 485 490 495  
 Val Lys Glu Tyr Glu Pro Gln Glu Asp Cys Ser Ser Pro Ala Ala  
 500 505 510  
 Leu Asp Ser Asn His Asn Met Ala Pro Pro Ser Asp Trp Ser Pro  
 515 520 525  
 Ser Trp Val Met Trp Leu Glu Leu Pro Arg Cys Leu Tyr Asn Cys  
 530 535 540  
 Lys Asp Ile Val Leu Arg Arg Asn Thr Ala Gly Ser Leu Gly Phe  
 545 550 555  
 Cys Ile Val Gly Gly Tyr Glu Glu Tyr Asn Gly Asn Lys Pro Phe  
 560 565 570

Phe	Ile	Lys	Ser	Ile	Val	Glu	Gly	Thr	Pro	Ala	Tyr	Asn	Asp	Gly
				575				580						585
Arg	Ile	Arg	Cys	Gly	Asp	Ile	Leu	Leu	Ala	Val	Asn	Gly	Arg	Ser
				590				595						600
Thr	Ser	Gly	Met	Ile	His	Ala	Cys	Leu	Ala	Arg	Leu	Leu	Lys	Glu
				605				610						615
Leu	Lys	Gly	Arg	Ile	Thr	Leu	Thr	Ile	Val	Ser	Trp	Pro	Gly	Thr
				620				625						630
Phe	Leu													

<210> 15  
<211> 391  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1311833CD1

<400> 15														
Met	Lys	Met	Lys	Ile	Gln	Lys	Lys	Glu	Lys	Gln	Leu	Ser	Asn	Leu
1				5				10						15
Lys	Val	Leu	Asn	His	Ser	Pro	Met	Ser	Asp	Ala	Ser	Val	Asn	Phe
				20				25						30
Asp	Tyr	Lys	Ser	Pro	Ser	Pro	Phe	Asp	Cys	Ser	Thr	Asp	Gln	Glu
				35				40						45
Glu	Lys	Ile	Glu	Asp	Val	Ala	Ser	His	Cys	Leu	Pro	Gln	Lys	Asp
				50				55						60
Leu	Tyr	Thr	Ala	Glu	Glu	Glu	Ala	Ala	Thr	Leu	Phe	Pro	Arg	Lys
				65				70						75
Met	Thr	Ser	His	Asn	Gly	Met	Glu	Asp	Ser	Gly	Gly	Gly	Gly	Thr
				80				85						90
Gly	Val	Lys	Lys	Lys	Arg	Lys	Lys	Glu	Pro	Gly	Asp	Gln	Glu	
				95				100						105
Gly	Ala	Ala	Lys	Gly	Ser	Lys	Asp	Arg	Glu	Pro	Lys	Pro	Lys	Arg
				110				115						120
Lys	Arg	Glu	Pro	Lys	Glu	Pro	Lys	Glu	Pro	Arg	Lys	Ala	Lys	Glu
				125				130						135
Pro	Lys	Lys	Ala	Lys	Glu	His	Lys	Glu	Pro	Lys	Gln	Lys	Asp	Gly
				140				145						150
Ala	Lys	Lys	Ala	Arg	Lys	Pro	Arg	Glu	Ala	Ser	Gly	Thr	Lys	Glu
				155				160						165
Ala	Lys	Glu	Lys	Arg	Ser	Cys	Thr	Asp	Ser	Ala	Ala	Arg	Thr	Lys
				170				175						180
Ser	Arg	Lys	Ala	Ser	Lys	Glu	Gln	Gly	Pro	Thr	Pro	Val	Glu	Lys
				185				190						195
Lys	Lys	Lys	Gly	Lys	Arg	Lys	Ser	Glu	Thr	Thr	Val	Glu	Ser	Leu
				200				205						210
Glu	Leu	Asp	Gln	Gly	Leu	Thr	Asn	Pro	Ser	Leu	Arg	Ser	Pro	Glu
				215				220						225
Glu	Ser	Thr	Glu	Ser	Thr	Asp	Ser	Gln	Lys	Arg	Arg	Ser	Gly	Arg
				230				235						240
Gln	Val	Lys	Arg	Arg	Lys	Tyr	Asn	Glu	Asp	Leu	Asp	Phe	Lys	Val

245	250	255
Val Asp Asp Asp Gly Glu Thr Ile Ala Val	Leu Gly Ala Gly	Arg
260	265	270
Thr Ser Ala Leu Ser Ala Ser Thr Leu Ala	Trp Gln Ala Glu	Glu
275	280	285
Pro Pro Glu Asp Asp Ala Asn Ile Ile	Glu Lys Ile Leu Ala	Ser
290	295	300
Lys Thr Val Gln Glu Val His Pro Gly	Glu Pro Pro Phe Asp	Leu
305	310	315
Glu Leu Phe Tyr Val Lys Tyr Arg Asn	Phe Ser Tyr Leu His	Cys
320	325	330
Lys Trp Ala Thr Met Glu Glu Leu Glu	Lys Asp Pro Arg Ile	Ala
335	340	345
Gln Lys Ile Lys Arg Phe Arg Asn Lys	Gln Ala Gln Met Lys	His
350	355	360
Ile Phe Thr Glu Val Lys Gln Tyr Leu	Leu Thr His Leu Thr	Ala
365	370	375
Ala Phe Leu Ala Ala Val Asn Thr Val	Phe Thr Phe Leu Ser	Pro
380	385	390

Ser

<210> 16  
<211> 490  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1342819CD1

<400> 16		
Met Glu Asp Ser Ala Ser Ala Ser Leu Ser	Ser Ala Ala Ala Thr	
1	5	10
Gly Thr Ser Thr Ser Thr Pro Ala Ala	Pro Thr Ala Arg Lys	Gln
20	25	30
Leu Asp Lys Glu Gln Val Arg Lys Ala Val	Asp Ala Leu Leu	Thr
35	40	45
His Cys Lys Ser Arg Lys Asn Asn Tyr	Gly Leu Leu Leu Asn	Glu
50	55	60
Asn Glu Ser Leu Phe Leu Met Val Val	Leu Trp Lys Ile Pro	Ser
65	70	75
Lys Glu Leu Arg Val Arg Leu Thr Leu	Pro His Ser Ile Arg	Ser
80	85	90
Asp Ser Glu Asp Ile Cys Leu Phe Thr	Lys Asp Glu Pro Asn	Ser
95	100	105
Thr Pro Glu Lys Thr Glu Gln Phe Tyr	Arg Lys Leu Leu Asn	Lys
110	115	120
His Gly Ile Lys Thr Val Ser Gln Ile	Ile Ser Leu Gln Thr	Leu
125	130	135
Lys Lys Glu Tyr Lys Ser Tyr Glu Ala	Lys Leu Arg Leu	Leu
140	145	150
Ser Phe Asp Phe Phe Leu Thr Asp Ala	Arg Ile Arg Arg	Leu
155	160	165

Pro	Ser	Leu	Ile	Gly	Arg	His	Phe	Tyr	Gln	Arg	Lys	Lys	Val	Pro
				170					175					180
Val	Ser	Val	Asn	Leu	Leu	Ser	Lys	Asn	Leu	Ser	Arg	Glu	Ile	Asn
				185					190					195
Asp	Cys	Ile	Gly	Gly	Thr	Val	Leu	Asn	Ile	Ser	Lys	Ser	Gly	Ser
				200					205					210
Cys	Ser	Ala	Ile	Arg	Ile	Gly	His	Val	Gly	Met	Gln	Ile	Glu	His
				215					220					225
Ile	Ile	Glu	Asn	Ile	Val	Ala	Val	Thr	Lys	Gly	Leu	Ser	Glu	Lys
				230					235					240
Leu	Pro	Glu	Lys	Trp	Glu	Ser	Val	Lys	Leu	Leu	Phe	Val	Lys	Thr
				245					250					255
Glu	Lys	Ser	Ala	Ala	Leu	Pro	Ile	Phe	Ser	Ser	Phe	Val	Ser	Asn
				260					265					270
Trp	Asp	Glu	Ala	Thr	Lys	Arg	Ser	Leu	Leu	Asn	Lys	Lys	Lys	Lys
				275					280					285
Glu	Ala	Arg	Arg	Lys	Arg	Arg	Glu	Arg	Asn	Phe	Glu	Lys	Gln	Lys
				290					295					300
Glu	Arg	Lys	Lys	Lys	Arg	Gln	Gln	Ala	Arg	Lys	Thr	Ala	Ser	Val
				305					310					315
Leu	Ser	Lys	Asp	Asp	Val	Ala	Pro	Glu	Ser	Gly	Asp	Thr	Thr	Val
				320					325					330
Lys	Lys	Pro	Glu	Ser	Lys	Lys	Glu	Gln	Thr	Pro	Glu	His	Gly	Lys
				335					340					345
Lys	Lys	Arg	Gly	Arg	Gly	Lys	Ala	Gln	Val	Lys	Ala	Thr	Asn	Glu
				350					355					360
Ser	Glu	Asp	Glu	Ile	Pro	Gln	Leu	Val	Pro	Ile	Gly	Lys	Lys	Thr
				365					370					375
Pro	Ala	Asn	Glu	Lys	Val	Glu	Ile	Gln	Lys	His	Ala	Thr	Gly	Lys
				380					385					390
Lys	Ser	Pro	Ala	Lys	Ser	Pro	Asn	Pro	Ser	Thr	Pro	Arg	Gly	Lys
				395					400					405
Lys	Arg	Lys	Ala	Leu	Pro	Ala	Ser	Glu	Thr	Pro	Lys	Ala	Ala	Glu
				410					415					420
Ser	Glu	Thr	Pro	Gly	Lys	Ser	Pro	Glu	Lys	Lys	Pro	Lys	Ile	Lys
				425					430					435
Glu	Glu	Ala	Val	Lys	Glu	Lys	Ser	Pro	Ser	Leu	Gly	Lys	Lys	Asp
				440					445					450
Ala	Arg	Gln	Thr	Pro	Lys	Lys	Pro	Glu	Ala	Lys	Phe	Phe	Thr	Thr
				455					460					465
Pro	Ser	Lys	Ser	Val	Arg	Lys	Ala	Ser	His	Thr	Pro	Lys	Lys	Trp
				470					475					480
Pro	Lys	Lys	Pro	Lys	Val	Pro	Gln	Ser	Thr					
				485					490					

<210> 17  
<211> 252  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1871288CD1

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<400> 17

Met	Ala	Glu	Leu	Glu	Phe	Val	Gln	Ile	Ile	Ile	Ile	Val	Val	Val
1		5						10						15
Met	Met	Val	Met	Val	Val	Val	Ile	Thr	Cys	Leu	Leu	Ser	His	Tyr
		20						25						30
Lys	Leu	Ser	Ala	Arg	Ser	Phe	Ile	Ser	Arg	His	Ser	Gln	Gly	Arg
		35						40						45
Arg	Arg	Glu	Asp	Ala	Leu	Ser	Ser	Glu	Gly	Cys	Leu	Trp	Pro	Ser
		50						55						60
Glu	Ser	Thr	Val	Ser	Gly	Asn	Gly	Ile	Pro	Glu	Pro	Gln	Val	Tyr
		65						70						75
Ala	Pro	Pro	Arg	Pro	Thr	Asp	Arg	Leu	Ala	Val	Pro	Pro	Phe	Ala
		80						85						90
Gln	Arg	Glu	Arg	Phe	His	Arg	Phe	Gln	Pro	Thr	Tyr	Pro	Tyr	Leu
		95						100						105
Gln	His	Glu	Ile	Asp	Leu	Pro	Pro	Thr	Ile	Ser	Leu	Ser	Asp	Gly
		110						115						120
Glu	Glu	Pro	Pro	Tyr	Gln	Gly	Pro	Cys	Thr	Leu	Gln	Leu	Arg	
		125						130						135
Asp	Pro	Glu	Gln	Gln	Leu	Glu	Leu	Asn	Arg	Glu	Ser	Val	Arg	Ala
		140						145						150
Pro	Pro	Asn	Arg	Thr	Ile	Phe	Asp	Ser	Asp	Leu	Met	Asp	Ser	Ala
		155						160						165
Arg	Leu	Gly	Gly	Pro	Cys	Pro	Pro	Ser	Ser	Asn	Ser	Gly	Ile	Ser
		170						175						180
Ala	Thr	Cys	Tyr	Gly	Ser	Gly	Gly	Arg	Met	Glu	Gly	Pro	Pro	Pro
		185						190						195
Thr	Tyr	Ser	Glu	Val	Ile	Gly	His	Tyr	Pro	Gly	Ser	Ser	Phe	Gln
		200						205						210
His	Gln	Gln	Ser	Ser	Gly	Pro	Pro	Ser	Leu	Leu	Glu	Gly	Thr	Arg
		215						220						225
Leu	His	His	Thr	His	Ile	Ala	Pro	Leu	Glu	Ser	Ala	Ala	Ile	Trp
		230						235						240
Ser	Lys	Glu	Lys	Asp	Lys	Gln	Lys	Gly	His	Pro	Leu			
		245						250						

<210> 18

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2587338CD1

<400> 18

Met	Glu	Ser	Ala	Arg	Glu	Asn	Ile	Asp	Leu	Gln	Pro	Gly	Ser	Ser
1		5						10						15
Asp	Pro	Arg	Ser	Gln	Pro	Ile	Asn	Leu	Asn	His	Tyr	Ala	Thr	Lys
		20						25						30
Lys	Ser	Val	Ala	Glu	Ser	Met	Leu	Asp	Val	Ala	Leu	Phe	Met	Ser
		35						40						45
Asn	Ala	Met	Arg	Leu	Lys	Ala	Val	Leu	Glu	Gln	Gly	Pro	Ser	Ser
		50						55						60

His	Tyr	Tyr	Thr	Thr	Leu	Val	Thr	Leu	Ile	Ser	Leu	Ser	Leu	Leu
					65				70					75
Leu	Gln	Val	Val	Ile	Gly	Val	Leu	Leu	Val	Val	Ile	Ala	Arg	Leu
					80				85					90
Asn	Leu	Asn	Glu	Val	Glu	Lys	Gln	Trp	Arg	Leu	Asn	Gln	Leu	Asn
					95				100					105
Asn	Gly	Ser	His	Ile	Leu	Val	Phe	Phe	Thr	Val	Val	Ile	Asn	Gly
					110				115					120
Phe	Ile	Thr	Gly	Phe	Gly	Ala	His	Lys	Thr	Arg	Val	Leu	Ala	Cys
					125				130					135
Gln	Asp	Ser	Arg	Asn	Pro	Leu								
					140									

&lt;210&gt; 19

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2821211CD1

&lt;400&gt; 19

Met	Glu	Ile	Ile	Glu	Asn	Ser	Phe	His	Ile	Asn	Gly	Leu	Lys	Ile
1				5					10					15
Asn	Gln	Arg	Thr	Leu	Cys	Val	His	Val	Cys	Ile	Ser	Ala	His	Arg
					20				25					30
Asn	Ile	Tyr	Thr	Tyr	Val	Asp	Tyr	Ile	His	Val	Cys	Ile	Tyr	Val
					35				40					45
Tyr	Ile	Tyr	Ile	His	Leu	Tyr	Lys	Cys	Ile	Tyr	Thr	Tyr	Thr	Tyr
					50				55					60
Asn	Val	Cys	Met	Cys	Ile	Tyr								
					65									

&lt;210&gt; 20

&lt;211&gt; 455

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2824832CD1

&lt;400&gt; 20

Met	Phe	Gln	Phe	His	Ala	Gly	Ser	Trp	Glu	Ser	Trp	Cys	Cys	Cys
1				5					10					15
Cys	Leu	Ile	Pro	Ala	Asp	Arg	Pro	Trp	Asp	Arg	Gly	Gln	His	Trp
					20				25					30
Gln	Leu	Glu	Met	Ala	Asp	Thr	Arg	Ser	Val	His	Glu	Thr	Arg	Phe
					35				40					45
Glu	Ala	Ala	Val	Lys	Val	Ile	Gln	Ser	Leu	Pro	Lys	Asn	Gly	Ser
					50				55					60
Phe	Gln	Pro	Thr	Asn	Glu	Met	Met	Leu	Lys	Phe	Tyr	Ser	Phe	Tyr
					65				70					75

Lys	Gln	Ala	Thr	Glu	Gly	Pro	Cys	Lys	Leu	Ser	Arg	Pro	Gly	Phe
				80				85					90	
Trp	Asp	Pro	Ile	Gly	Arg	Tyr	Lys	Trp	Asp	Ala	Trp	Ser	Ser	Leu
				95				100					105	
Gly	Asp	Met	Thr	Lys	Glu	Glu	Ala	Met	Ile	Ala	Tyr	Val	Glu	Glu
				110				115					120	
Met	Lys	Lys	Ile	Ile	Glu	Thr	Met	Pro	Met	Thr	Glu	Lys	Val	Glu
				125				130					135	
Glu	Leu	Leu	Arg	Val	Ile	Gly	Pro	Phe	Tyr	Glu	Ile	Val	Glu	Asp
				140				145					150	
Lys	Lys	Ser	Gly	Arg	Ser	Ser	Asp	Ile	Thr	Ser	Asp	Leu	Gly	Asn
				155				160					165	
Val	Leu	Thr	Ser	Thr	Pro	Asn	Ala	Lys	Thr	Val	Asn	Gly	Lys	Ala
				170				175					180	
Glu	Ser	Ser	Asp	Ser	Gly	Ala	Glu	Ser	Glu	Glu	Glu	Ala	Gln	
				185				190					195	
Glu	Glu	Val	Lys	Gly	Ala	Glu	Gln	Ser	Asp	Asn	Asp	Ile	Asn	Asp
				200				205					210	
Asp	His	Val	Glu	Asp	Val	Thr	Gly	Ile	Gln	His	Leu	Thr	Ser	Asp
				215				220					225	
Ser	Asp	Ser	Glu	Val	Tyr	Cys	Asp	Ser	Met	Glu	Gln	Phe	Gly	Gln
				230				235					240	
Glu	Glu	Ser	Leu	Asp	Ser	Phe	Thr	Ser	Asn	Asn	Gly	Pro	Phe	Gln
				245				250					255	
Tyr	Tyr	Leu	Gly	Gly	His	Ser	Ser	Gln	Pro	Met	Glu	Asn	Ser	Gly
				260				265					270	
Phe	Arg	Glu	Asp	Ile	Gln	Val	Pro	Pro	Gly	Asn	Gly	Asn	Ile	Gly
				275				280					285	
Asn	Met	Gln	Val	Val	Ala	Val	Glu	Gly	Lys	Gly	Glu	Val	Lys	His
				290				295					300	
Gly	Gly	Glu	Asp	Gly	Arg	Asn	Asn	Ser	Gly	Ala	Pro	His	Arg	Glu
				305				310					315	
Lys	Arg	Gly	Gly	Glu	Thr	Asp	Glu	Phe	Ser	Asn	Val	Arg	Arg	Gly
				320				325					330	
Arg	Gly	His	Arg	Met	Gln	His	Leu	Ser	Glu	Gly	Thr	Lys	Gly	Arg
				335				340					345	
Gln	Val	Gly	Ser	Gly	Gly	Asp	Gly	Glu	Arg	Trp	Gly	Ser	Asp	Arg
				350				355					360	
Gly	Ser	Arg	Gly	Ser	Leu	Asn	Glu	Gln	Ile	Ala	Leu	Val	Leu	Met
				365				370					375	
Arg	Leu	Gln	Glu	Asp	Met	Gln	Asn	Val	Leu	Gln	Arg	Leu	Gln	Lys
				380				385					390	
Leu	Glu	Thr	Leu	Thr	Ala	Leu	Gln	Ala	Lys	Ser	Ser	Thr	Ser	Thr
				395				400					405	
Leu	Gln	Thr	Ala	Pro	Gln	Pro	Thr	Ser	Gln	Arg	Pro	Ser	Trp	Trp
				410				415					420	
Pro	Phe	Glu	Met	Ser	Pro	Gly	Val	Leu	Thr	Phe	Ala	Ile	Ile	Trp
				425				430					435	
Pro	Phe	Ile	Ala	Gln	Trp	Leu	Val	Tyr	Leu	Tyr	Tyr	Gln	Arg	Arg
				440				445					450	
Arg	Arg	Lys	Leu	Asn										
				455										

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<211> 252  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 3070147CD1

<400> 21

Met	Gln	Leu	Thr	Arg	Cys	Cys	Phe	Val	Phe	Leu	Val	Gln	Gly	Ser
1		5						10				15		
Leu	Tyr	Leu	Val	Ile	Cys	Gly	Gln	Asp	Asp	Gly	Pro	Pro	Gly	Ser
				20					25				30	
Glu	Asp	Pro	Glu	Arg	Asp	Asp	His	Glu	Gly	Gln	Pro	Arg	Pro	Arg
				35					40				45	
Val	Pro	Arg	Lys	Arg	Gly	His	Ile	Ser	Pro	Lys	Ser	Arg	Pro	Met
				50					55				60	
Ala	Asn	Ser	Thr	Leu	Leu	Gly	Leu	Leu	Ala	Pro	Thr	Gly	Glu	Ala
				65					70				75	
Trp	Gly	Ile	Leu	Gly	Gln	Pro	Pro	Asn	Arg	Pro	Asn	His	Ser	Pro
				80					85				90	
Pro	Pro	Ser	Ala	Lys	Val	Lys	Lys	Ile	Phe	Gly	Trp	Gly	Asp	Phe
				95					100				105	
Tyr	Ser	Asn	Ile	Lys	Thr	Val	Ala	Leu	Asn	Leu	Leu	Val	Thr	Gly
				110					115				120	
Lys	Ile	Val	Asp	His	Gly	Asn	Gly	Thr	Phe	Ser	Val	His	Phe	Gln
				125					130				135	
His	Asn	Ala	Thr	Gly	Gln	Gly	Asn	Ile	Ser	Ile	Ser	Leu	Val	Pro
				140					145				150	
Pro	Ser	Lys	Ala	Val	Glu	Phe	His	Gln	Glu	Gln	Gln	Ile	Phe	Ile
				155					160				165	
Glu	Ala	Lys	Ala	Ser	Lys	Ile	Phe	Asn	Cys	Arg	Met	Glu	Trp	Glu
				170					175				180	
Lys	Val	Glu	Arg	Gly	Arg	Arg	Thr	Ser	Leu	Cys	Thr	His	Asp	Pro
				185					190				195	
Ala	Lys	Ile	Cys	Ser	Arg	Asp	His	Ala	Gln	Ser	Ser	Ala	Thr	Trp
				200					205				210	
Ser	Cys	Ser	Gln	Pro	Phe	Lys	Val	Val	Cys	Val	Tyr	Ile	Ala	Phe
				215					220				225	
Tyr	Ser	Thr	Asp	Tyr	Arg	Leu	Val	Gln	Lys	Val	Cys	Pro	Asp	Tyr
				230					235				240	
Asn	Tyr	His	Ser	Asp	Thr	Pro	Tyr	Tyr	Pro	Ser	Gly			
				245					250					

<210> 22  
<211> 149  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 3271841CD1

<400> 22

Met	Glu	Ser	Arg	Gly	Lys	Ser	Ala	Ser	Ser	Pro	Lys	Pro	Asp	Thr
1				5					10					15
Lys	Val	Pro	Gln	Val	Thr	Thr	Glu	Ala	Lys	Val	Pro	Pro	Ala	Ala
					20				25					30
Asp	Gly	Lys	Ala	Pro	Leu	Thr	Lys	Pro	Ser	Lys	Lys	Glu	Ala	Pro
						35			40					45
Ala	Glu	Lys	Gln	Gln	Pro	Pro	Ala	Ala	Pro	Thr	Thr	Ala	Pro	Ala
						50			55					60
Lys	Lys	Thr	Ser	Ala	Lys	Ala	Asp	Pro	Ala	Leu	Leu	Asn	Asn	His
						65			70					75
Ser	Asn	Leu	Lys	Pro	Ala	Pro	Thr	Val	Pro	Ser	Ser	Pro	Asp	Ala
						80			85					90
Thr	Pro	Glu	Pro	Lys	Gly	Pro	Gly	Asp	Gly	Ala	Glu	Glu	Asp	Glu
						95			100					105
Ala	Ala	Ser	Gly	Gly	Pro	Gly	Gly	Arg	Gly	Pro	Trp	Ser	Cys	Glu
						110			115					120
Asn	Phe	Asn	Pro	Leu	Leu	Val	Ala	Gly	Gly	Val	Ala	Val	Ala	Ala
						125			130					135
Ile	Ala	Leu	Ile	Leu	Gly	Val	Ala	Phe	Leu	Val	Arg	Lys	Lys	
						140			145					

&lt;210&gt; 23

&lt;211&gt; 204

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3537827CD1

&lt;400&gt; 23

Met	Met	Pro	Ser	Cys	Asn	Arg	Ser	Cys	Ser	Arg	Gly	Pro		
1				5					10				15	
Ser	Val	Glu	Asp	Gly	Lys	Trp	Tyr	Gly	Val	Arg	Ser	Tyr	Leu	His
						20			25					30
Leu	Phe	Tyr	Glu	Asp	Cys	Ala	Gly	Thr	Ala	Leu	Ser	Asp	Asp	Pro
						35			40					45
Glu	Gly	Pro	Pro	Val	Leu	Cys	Pro	Arg	Arg	Pro	Trp	Pro	Ser	Leu
						50			55					60
Cys	Trp	Lys	Ile	Ser	Leu	Ser	Ser	Gly	Thr	Leu	Leu	Leu	Leu	Leu
						65			70					75
Gly	Val	Ala	Ala	Leu	Thr	Thr	Gly	Tyr	Ala	Val	Pro	Pro	Lys	Leu
						80			85					90
Glu	Gly	Ile	Gly	Glu	Gly	Glu	Phe	Leu	Val	Leu	Asp	Gln	Arg	Ala
						95			100					105
Ala	Asp	Tyr	Asn	Gln	Ala	Leu	Gly	Thr	Cys	Arg	Leu	Ala	Gly	Thr
						110			115					120
Ala	Leu	Cys	Val	Ala	Ala	Gly	Val	Leu	Ala	Ile	Cys	Leu	Phe	
						125			130					135
Trp	Ala	Met	Ile	Gly	Trp	Leu	Ser	Gln	Asp	Thr	Lys	Ala	Glu	Pro
						140			145					150
Leu	Asp	Pro	Glu	Ala	Asp	Ser	His	Val	Glu	Val	Phe	Gly	Asp	Glu
						155			160					165
Pro	Glu	Gln	Gln	Leu	Ser	Pro	Ile	Phe	Arg	Asn	Ala	Ser	Gly	Gln

170	175	180
Ser Trp Phe Ser Pro Pro Ala Ser Pro Phe Gly Gln Ser Ser Val		
185	190	195
Gln Thr Ile Gln Pro Lys Arg Asp Ser		
200		

<210> 24  
 <211> 367  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 3729267CD1

<400> 24

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1 5 10 15		
Lys His Lys Asn Leu Phe Leu Asn Tyr Arg Asn Leu His His Phe		
20 25 30		
Pro Leu Glu Leu Leu Lys Asp Glu Gly Leu Gln Tyr Leu Glu Arg		
35 40 45		
Leu Tyr Met Lys Arg Asn Ser Leu Thr Ser Leu Pro Glu Asn Leu		
50 55 60		
Ala Gln Lys Leu Pro Asn Leu Val Glu Leu Tyr Leu His Ser Asn		
65 70 75		
Asn Ile Val Val Val Pro Glu Ala Ile Gly Ser Leu Val Lys Leu		
80 85 90		
Gln Cys Leu Asp Leu Ser Asp Asn Ala Leu Glu Ile Val Cys Pro		
95 100 105		
Glu Ile Gly Arg Leu Arg Ala Leu Arg His Leu Arg Leu Ala Asn		
110 115 120		
Asn Gln Leu Gln Phe Leu Pro Pro Glu Val Gly Asp Leu Lys Glu		
125 130 135		
Leu Gln Thr Leu Asp Ile Ser Thr Asn Arg Leu Leu Thr Leu Pro		
140 145 150		
Glu Arg Leu His Met Cys Leu Ser Leu Gln Tyr Leu Thr Val Asp		
155 160 165		
Arg Asn Arg Leu Trp Tyr Val Pro Arg His Leu Cys Gln Leu Pro		
170 175 180		
Ser Leu Asn Glu Leu Ser Met Ala Gly Asn Arg Leu Ala Phe Leu		
185 190 195		
Pro Leu Asp Leu Gly Arg Ser Arg Glu Leu Gln Tyr Val Tyr Val		
200 205 210		
Asp Asn Asn Ile His Leu Lys Gly Leu Pro Ser Tyr Leu Tyr Asn		
215 220 225		
Lys Val Ile Gly Cys Ser Gly Cys Gly Ala Pro Ile Gln Val Ser		
230 235 240		
Glu Val Lys Leu Leu Ser Phe Ser Ser Gly Gln Arg Thr Val Phe		
245 250 255		
Leu Pro Ala Glu Val Lys Ala Ile Gly Thr Glu His Asp His Val		
260 265 270		
Leu Pro Leu Gln Glu Leu Ala Met Arg Gly Leu Tyr His Thr Tyr		
275 280 285		

His	Ser	Leu	Leu	Lys	Asp	Leu	Asn	Phe	Leu	Ser	Pro	Ile	Ser	Leu
														290
														295
														300
Pro	Arg	Ser	Leu	Leu	Glu	Leu	Leu	His	Cys	Pro	Leu	Gly	His	Cys
														305
														310
														315
His	Arg	Cys	Ser	Glu	Pro	Met	Phe	Thr	Ile	Val	Tyr	Pro	Lys	Leu
														320
														325
														330
Phe	Pro	Leu	Arg	Glu	Thr	Pro	Met	Ala	Gly	Leu	His	Gln	Trp	Lys
														335
														340
														345
Thr	Thr	Val	Ser	Phe	Val	Ala	Tyr	Cys	Cys	Ser	Thr	Gln	Cys	Leu
														350
														355
Gln	Thr	Phe	Asp	Leu	Leu	Ser								360
														365

&lt;210&gt; 25

&lt;211&gt; 681

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3768771CD1

&lt;400&gt; 25

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Glu	Lys	Gly	Asn	Val	Leu	Leu	Glu	Asp	Gly	Lys	Gly	Arg	Cys	Pro
										20	25			30
Phe	Asp	Pro	Asn	Phe	Lys	Ser	Thr	Ala	Leu	Val	Val	Asp	Gly	Glu
										35	40			45
Leu	Tyr	Thr	Gly	Thr	Val	Ser	Ser	Phe	Gln	Gly	Asn	Asp	Pro	Ala
										50	55			60
Ile	Ser	Arg	Ser	Gln	Ser	Leu	Arg	Pro	Thr	Lys	Thr	Glu	Ser	Ser
										65	70			75
Leu	Asn	Trp	Leu	Gln	Asp	Pro	Ala	Phe	Val	Ala	Ser	Ala	Tyr	Ile
										80	85			90
Pro	Glu	Ser	Leu	Gly	Ser	Leu	Gln	Gly	Asp	Asp	Asp	Lys	Ile	Tyr
										95	100			105
Phe	Phe	Phe	Ser	Glu	Thr	Gly	Gln	Glu	Phe	Glu	Phe	Phe	Glu	Asn
										110	115			120
Thr	Ile	Val	Ser	Arg	Ile	Ala	Arg	Ile	Cys	Lys	Gly	Asp	Glu	Gly
										125	130			135
Gly	Glu	Arg	Val	Leu	Gln	Gln	Arg	Trp	Thr	Ser	Phe	Leu	Lys	Ala
										140	145			150
Gln	Leu	Leu	Cys	Ser	Arg	Pro	Asp	Asp	Gly	Phe	Pro	Phe	Asn	Val
										155	160			165
Leu	Gln	Asp	Val	Phe	Thr	Leu	Ser	Pro	Ser	Pro	Gln	Asp	Trp	Arg
										170	175			180
Asp	Thr	Leu	Phe	Tyr	Gly	Val	Phe	Thr	Ser	Gln	Trp	His	Arg	Gly
										185	190			195
Thr	Thr	Glu	Gly	Ser	Ala	Val	Cys	Val	Phe	Thr	Met	Lys	Asp	Val
										200	205			210
Gln	Arg	Val	Phe	Ser	Gly	Leu	Tyr	Lys	Glu	Val	Asn	Arg	Glu	Thr
										215	220			225
Gln	Gln	Trp	Tyr	Thr	Val	Thr	His	Pro	Val	Pro	Thr	Pro	Arg	Pro

230	235	240
Gly Ala Cys Ile Thr Asn Ser Ala Arg	Glu Arg Lys Ile Asn Ser	
245	250	255
Ser Leu Gln Leu Pro Asp Arg Val Leu Asn Phe Leu Lys Asp His		
260	265	270
Phe Leu Met Asp Gly Gln Val Arg Ser Arg Met Leu Leu Leu Gln		
275	280	285
Pro Gln Ala Arg Tyr Gln Arg Val Ala Val His Arg Val Pro Gly		
290	295	300
Leu His His Thr Tyr Asp Val Leu Phe Leu Gly Thr Gly Asp Gly		
305	310	315
Arg Leu His Lys Ala Val Ser Val Gly Pro Arg Val His Ile Ile		
320	325	330
Glu Glu Leu Gln Ile Phe Ser Ser Gly Gln Pro Val Gln Asn Leu		
335	340	345
Leu Leu Asp Thr His Arg Gly Leu Leu Tyr Ala Ala Ser His Ser		
350	355	360
Gly Val Val Gln Val Pro Met Ala Asn Cys Ser Leu Tyr Arg Ser		
365	370	375
Cys Gly Asp Cys Leu Leu Ala Arg Asp Pro Tyr Cys Ala Trp Ser		
380	385	390
Gly Ser Ser Cys Lys His Val Ser Leu Tyr Gln Pro Gln Leu Ala		
395	400	405
Thr Arg Pro Trp Ile Gln Asp Ile Glu Gly Ala Ser Ala Lys Asp		
410	415	420
Leu Cys Ser Ala Ser Ser Val Val Ser Pro Ser Phe Val Pro Thr		
425	430	435
Gly Glu Lys Pro Cys Glu Gln Val Gln Phe Gln Pro Asn Thr Val		
440	445	450
Asn Thr Leu Ala Cys Pro Leu Leu Ser Asn Leu Ala Thr Arg Leu		
455	460	465
Trp Leu Arg Asn Gly Ala Pro Val Asn Ala Ser Ala Ser Cys His		
470	475	480
Val Leu Pro Thr Gly Asp Leu Leu Leu Val Gly Thr Gln Gln Leu		
485	490	495
Gly Glu Phe Gln Cys Trp Ser Leu Glu Glu Gly Phe Gln Gln Leu		
500	505	510
Val Ala Ser Tyr Cys Pro Glu Val Val Glu Asp Gly Val Ala Asp		
515	520	525
Gln Thr Asp Glu Gly Gly Ser Val Pro Val Ile Ile Ser Thr Ser		
530	535	540
Arg Val Ser Ala Pro Ala Gly Gly Lys Ala Ser Trp Gly Ala Asp		
545	550	555
Arg Ser Tyr Trp Lys Glu Phe Leu Val Met Cys Thr Leu Phe Val		
560	565	570
Leu Ala Val Leu Leu Pro Val Leu Phe Leu Leu Tyr Arg His Arg		
575	580	585
Asn Ser Met Lys Val Phe Leu Lys Gln Gly Glu Cys Ala Ser Val		
590	595	600
His Pro Lys Thr Cys Pro Val Val Leu Pro Pro Glu Thr Arg Pro		
605	610	615
Leu Asn Gly Leu Gly Pro Pro Ser Thr Pro Leu Asp His Arg Gly		
620	625	630
Tyr Gln Ser Leu Ser Asp Ser Pro Pro Gly Ser Arg Val Phe Thr		

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	635	640	645											
Glu	Ser	Glu	Lys	Arg	Pro	Leu	Ser	Ile	Gln	Asp	Ser	Phe	Val	Glu
		650							655					660
Val	Ser	Pro	Val	Cys	Pro	Arg	Pro	Arg	Val	Arg	Leu	Gly	Ser	Glu
		665							670					675
Ile	Arg	Asp	Ser	Val	Val									
														680

<210> 26  
<211> 137  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 4248993CD1

<400> 26

Met	Gly	Arg	Lys	Leu	Asp	Leu	Ser	Gly	Leu	Thr	Asp	Asp	Glu	Thr
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Glu	His	Val	Leu	Gln	Val	Val	Gln	Arg	Asp	Phe	Asn	Leu	Arg	Lys
										25				30
Lys	Glu	Glu	Glu	Arg	Leu	Ser	Glu	Leu	Lys	Gln	Lys	Leu	Asp	Glu
				35					40					45
Glu	Gly	Ser	Lys	Cys	Ser	Ile	Leu	Ser	Lys	His	Gln	Gln	Phe	Val
				50					55					60
Glu	His	Cys	Cys	Met	Arg	Cys	Cys	Ser	Pro	Phe	Thr	Phe	Leu	Val
				65					70					75
Asn	Thr	Lys	Arg	Gln	Cys	Gly	Asp	Cys	Lys	Phe	Asn	Val	Cys	Lys
				80					85					90
Ser	Cys	Cys	Ser	Tyr	Gln	Lys	His	Glu	Lys	Ala	Trp	Val	Cys	Cys
				95					100					105
Val	Cys	Gln	Gln	Ala	Arg	Leu	Leu	Arg	Ala	Gln	Ser	Leu	Glu	Trp
				110					115					120
Phe	Tyr	Asn	Asn	Val	Lys	Ser	Arg	Phe	Lys	Arg	Phe	Gly	Ser	Ala
				125					130					135
Arg	Phe													

<210> 27  
<211> 117  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 5402418CD1

<400> 27

Met	Lys	Phe	Gln	Tyr	Lys	Glu	Asp	His	Pro	Phe	Glu	Tyr	Arg	Lys
1				5					10					15
Lys	Glu	Gly	Glu	Lys	Ile	Arg	Lys	Lys	Tyr	Pro	Asp	Arg	Val	Pro
				20					25					30
Val	Ile	Val	Glu	Lys	Ala	Pro	Lys	Ala	Arg	Val	Pro	Asp	Leu	Asp

35	40	45
Lys Arg Lys Tyr	Leu Val Pro Ser Asp	Leu Thr Val Gly Gln Phe
50	55	60
Tyr Phe Leu Ile Arg	Lys Arg Ile His	Leu Arg Pro Glu Asp Ala
65	70	75
Leu Phe Phe Phe Val	Asn Asn Thr Ile Pro	Pro Thr Ser Ala Thr
80	85	90
Met Gly Gln Leu Tyr	Glu Asp Asn His	Glu Glu Asp Tyr Phe Leu
95	100	105
Tyr Val Ala Tyr Ser Asp Glu Ser Val	Tyr Gly Lys	
110	115	

<210> 28  
<211> 1058  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2417014CB1

<400> 28

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gcttcccctg	ctgtgcctct	tcctccaggg	cgccactgccc	gtcctctttg	ctgtctttgt	120
ccgctacaac	cacaaaaccg	acgctgccc	ctggcaccgg	agcaaccaca	gtaacgcgga	180
caatgaattt	tactttcgct	acccaaaaga	gtctcactct	gttgcccagg	ctggagtgc	240
acgacgcaat	ctcggtcac	tgcaaccc	acctcccaga	tggagttcg	ctcttgc	300
ccaggctgga	gtgcaatggc	acaatctcg	ctcaccacaa	cctctgcctc	ccgggttcaa	360
gcgattctcc	tgcctcagtc	tcctgagtag	ctgggattac	agcctggaga	gtgtgtttcc	420
actcatagcc	gagggccagc	gcagtgccac	gtcacaggcc	atgcaccaggc	tcttcggct	480
gtttgtcaca	ctgatgtttg	cctctgtggg	cgggggcctt	ggagggctcc	tgctgaagct	540
accctttctg	gactcccccc	ccagactccc	agcactacga	ggaccaagtt	cactggcagg	600
tgcctggcga	gcatgaggat	aaagcccaga	gacctctgag	ggtggaggag	gcagacactc	660
aggcctaacc	cactgccagc	ccctgagagg	acacgctcct	tttcgaagat	gctgactggc	720
tgctactagg	aagttctttt	ttagctccca	ttcctccagc	tgcaagaagg	gagccatgag	780
ccagaaggag	gcccctttcc	acaggcagcg	tctccacagg	gagaggggca	acaggaggct	840
ggggaaatggt	ggggagtggt	gccgttaactg	ggtacaatag	ggggAACCTC	accagatgcc	900
caacccgact	gcccattaccag	cctgcacatg	ggtagaagag	gccaatttga	ggcacccaag	960
tgatccactg	gccccacgtc	acacagttac	agtgaagccc	aagccaggcc	tggttgaggg	1020
tgataaacgc	cactgtcg	caccgcaaaa	aaaaaaa			1058

<210> 29  
<211> 2235  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2634931CB1

<400> 29

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ggcatctgag	aactgtgtcc	ttccattcct	gagtccagca	cttcccaggc	caggaactca	120
cacagctttt	ggcctgagcc	cccgatccca	agagaaagga	ggttttgcc	aaggactcca	180

aggggagtgc acttgatgct ggtcgggacc caaagcaccc agccctccct gagacattgt 240  
 gtgagtcggg ctgggcctca aacacggccc ccactgcccc accccagcca gggtggtgct 300  
 tgtgtggta ggactttaaa tccagctgcc agaccctgg acgggagaag gagagacggc 360  
 tggccaccat gcacggctcc tgca gtttcc tcatgcttct gtcggcgtca ctgctactgc 420  
 tggtgccac cacaggcccc gttggagccc tcacagatga ggagaaacgt ttgatggtgg 480  
 agctgcacaa cctctaccgg gccaggtat ccccgacggc ctcagacatg ctgcacatga 540  
 gatgggacga ggagctggcc gccttcgcca aggctacgc acggcagtgc gtgtggggcc 600  
 acaacaagga ggcggggcgc cgccggcaga atctgttcgc catcacagac gaggcatgg 660  
 acgtgccgct ggccatggag gatggcacc acgagcgtga gcactacaac ctcagcgccg 720  
 ccacctgcag cccaggccag atgtggcc actacacgc ggtgttatgg gccaagacag 780  
 agaggatcgg ctgtggttcc cacttctgtg agaagctcca ggggtgttag gagaccaaca 840  
 tcgaattact ggtgtcaac tatgagcctc cggggaaacgt gaaggggaaa cggccctacc 900  
 aggaggggac tccgtgctcc caatgtccct ctggctacca ctgcaagaac tccctctgtg 960  
 aaccatcg aagcccgaa gatgctcagg atttgcctta cctggtaact gaggccccat 1020  
 ccttcgggc gactgaagca tcagactcta ggaaaatggg tactccttct tccctagcaa 1080  
 cggggattcc ggctttcttgc gtaacagagg tctcaggctc cttggcaacc aaggctctgc 1140  
 ctgctgtgga aaccaggccc ccaacttctc tagcaacgaa agaccggccc tccatggcaa 1200  
 cagaggctcc accttgcgt acaactgagg tcccttccat ttggcagct cacagcctgc 1260  
 cttcccttgg a tggaggcca gttaccttcc ccaaatcgac ccatgttctt atcccaaaat 1320  
 cagcagacaa agtgcacagac aaaacaaaag tgccctctag gagcccagag aactctctgg 1380  
 accccaagat gtccctgaca gggcaaggg agctcctacc ccatgcccag gaggaggctg 1440  
 aggtcgaggc tgagttgcct cttccagtg aggtcttgc ctcagtttt ccagcccagg 1500  
 acaagccagg tgagctgcag gccacactgg accacacggg gcacacccctc tccaagtccc 1560  
 tgcccaattt ccccaatacc tctgccaccg ctaatgccac gggtggggcgt gccctggctc 1620  
 tgcagtcgtc cttgccaggt gcagaggccc ctgacaagcc tagcgtcgtg tcagggctga 1680  
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 tggctggctgg aatcttctga agggatacc actcaaaggg tgaagaggc agctgtcctc 1800  
 ctgtcatctt ccccaaccctg tccccagccc ctaaacaaga tacttcttgg ttaaggccct 1860  
 ccggaaaggga aaggctacgg ggcacatgtgcc tcatcacacc atccatcctg gaggcacaag 1920  
 gcctggctgg ctgcgagctc agggggccgc ctgaggactg cacaccggc ccacacccct 1980  
 cctgcccctc cctcctgagt cttgggggtg ggaggattt agggagctca ctgccttacct 2040  
 ggcctggggc tgcctggcca cacagcatgt ggcctctccc tgagtgcctg tgcgtctgg 2100  
 gatggggatt cctaggggca gatgaaggac aagcccaact ggagtgggt tctttgagtg 2160  
 gggaggcag ggacgaggga agaaaagcaa ctccctgactc tccaataaaa acctgtccaa 2220  
 cctgtaaaaa aaaaaa 2235

<210> 30  
 <211> 1559  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 110960CB1

<400> 30  
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 ctgcagtgga tggatgtggc acccacgcgg aggaaggaag agacgcaggc aggctgcgg 120  
 tacccaagcg gccacccggg cctcaggac cccttcccc agagacggca ccatgaccca 180  
 gggaaagctc tccgtggcta acaaggcccc tgggaccgag gggcagcagc aggtgcattgg 240  
 cgagaagaag gaggctccag cagtgcctc agcccccaccc tccttatgagg aagccaccc 300  
 tggggagggg atgaaggcag gggccttccc cccagcccc acagcggtgc ctctccaccc 360  
 tagctggccc tatgtggacc ccacgcggc ctccagctat gacaacgggt tccccaccgg 420  
 agaccatgag ctcttcacca ctccctgactc ggtatgaccag aaagttcgctc gaggctttgt 480

cagaaaggta tacaccatcc tgctgattca gctgctggta accttggctg tcgtggctc 540  
 ctttacttcc tggacccctg tcaaggacta tgtccaggcc aacccaggct ggtactggc 600  
 atcctatgct gtgttcttgc caacctaccc gaccctggct tgctgttctg gaccaggag 660  
 gcatttcccc tggaaacctga ttctcctgac cgtcttacc ctgtccatgg cctacctac 720  
 tggatgctg tccagctact acaacacccac ctccgtctg ctgtgcctgg gcacacccggc 780  
 ccttgtctgc ctctcagtca ccgtcttcag cttccagacc aagttcgact tcacccctg 840  
 ccaggcgtg ctctcgtgc ttctcatgac tctttcttc agcggactca tcctggccat 900  
 cctcctaccc ttccaaatatg tgccctggct ccatgcagtt tatgcagcac tggagcggg 960  
 tgtatatac ttgttctgg cacttgacac ccagttgctg atgggtaacc gacccactc 1020  
 gctgaggcct gaggagata ttttggagc cctcaacatt tacctagaca tcacatctat 1080  
 cttcacccctt ttcctgcagc ttttggcac taaccggaaa tgaggagccc tccctgcccc 1140  
 accgtccctcc agagaatgcg cccctcctgg ttccctgtcc ctcccccgtcg ctcctgcgag 1200  
 accagatata aaactagctg ccaacccagc ctgtgcccag gtcactgtct accccagccc 1260  
 agcccaagccc tctgcccgtt gtacatacgc catggggacc ctgaggaact gaggccacgt 1320  
 caatccctgt gcccggccat tcgcccgtta catctccaa actgggacgg tcaaggctga 1380  
 aggctccctct gggtttggagg gtccaaaggga caaggaggag aagcctagca ggatttcaga 1440  
 tgcaggagag agacccaggg aagcccgccgca gagccctgag cccactgca attctccatg 1500  
 ggctgcacat catgtggcattt agggacactg tctgcattca gtctgtgtct cctgtcttc 1559

<210> 31  
 <211> 876  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 380721CB1

<220>  
 <221> unsure  
 <222> 537, 585  
 <223> a, t, c, g, or other

<400> 31  
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 ctgtgttaagg gaatcgcatg gagatggca ttccgaactg ttaatggggta catgggactc 120  
 cagttgtctc tgatcacttg tggatgtttt cctggcgttag aacgcacagaa gcccgttagta 180  
 agtcgccaag acctacagca ggaattctgc accaaaggcc ataaaatctt gttatttaa 240  
 tttgcattctg ggagaatgtc tggcaagga gacctgaatc aggcaatagc agaggaagga 300  
 gggactgagc aggagacggc cactccagag aacggcattt ttaaatcaga aagtctggat 360  
 gaagaggaga aactggaaact gcagaggcgg ctggaggcgtc agaatcaaga aagaagaaaa 420  
 tccaaagtctcag gggcaggaaa aggtaaaactg actcgcatgc ttgctgtctg tgaggaatct 480  
 tctgcccggac caggagggtga aagtcttcag ggtcagactc tctgaaaact gcaaattngga 540  
 agggatttca aaaggtttag gttaaaaagtt aaattaaaag taggnacagt agtgctgaat 600  
 tttcctcaaa ggctctctt tgataaggct gaaccaaata taatcccaag aatactctct 660  
 ccttcctgt tggagatgtc ttacctctca gctccccaaa atgcacttgc ctataagaaa 720  
 cacaattgtc ggttcatata aacttaggaa atagtgaata aggtgcattt aacttggag 780  
 aaatactttt atggctttgg tggagatttc tcaataactgc caaagttgtc cagaaatcga 840  
 tctgagctga tggctgcttt tagttcatat tatcat 876

<210> 32  
 <211> 1521  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 829443CB1

<400> 32  
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 ccagtcccgag gacacagcag cgccacccat ggccacgcct gggctccagc agcatcagca 180  
 gccccccagga ccggggaggc acaggtggcc cccaccaccc ggaggagcag ctcctgcccc 240  
 tgtccggggg atgactgatt ctccctccgccc aggccaccca gaggagaagg ccaccccgcc 300  
 tggaggcaca ggccatgagg ggctctcagg aggtgctgct gatgtggctt ctggtgttgg 360  
 cagtggcgg cacagagcac gcctaccggc ccggccgtag ggtgtgtgct gtccgggctc 420  
 acggggaccc tgtctccgag tcgttcgtgc agcgtgtgta ccagcccttc ctcaccacct 480  
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<213> Homo sapiens
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<220>  
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<223> Incyte ID No: 3800639CB1

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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 533825CB1

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<213> Homo sapiens

<220>  
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<223> Incyte ID No: 1311833CB1

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<211> 1974  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1342819CB1

<400> 43

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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> Incyte ID No: 1871288CB1

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 <211> 505  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
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 gctggacgtg gccctgttca tgtccaacgc catgcccgtg aaggcgggtgc tggagcaggg 240  
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 gcagtggcga ctcaaccaggc tcaacaacgg cagccacatc ttgggttttcaactgtgg 420  
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<210> 46  
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 <213> Homo sapiens

<220>  
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PF-0637 USN

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ccagaaaaaaa aaaaaaaaaa 1099

<210> 47  
<211> 1727  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2824832CB1

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<213> Homo sapiens

<220>  
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&lt;211&gt; 1624

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;223&gt; Incyte ID No: 3271841CB1

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<213> *Homo sapiens*

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<212> DNA
<213> Homo sapiens
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<222> 374  
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Pro Ala Ser Ala Ser Pro Val Ala Gly Ile Thr Gly Met Cys Thr  
35 40 45

His	Ala	Arg	Leu	Ile	Leu	Tyr	Phe	Phe	Leu	Val	Glu	Met	Glu	Phe
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Leu	His	Val	Gly	Gln	Ala	Gly	Leu	Glu	Leu	Pro	Thr	Ser	Asp	Asp
							65			70				75
Pro	Ser	Val	Ser	Ala	Ser	Gln	Ser	Ala	Arg	Tyr	Arg	Thr	Gly	His
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His	Ala	Arg	Leu	Cys	Leu	Ala	Asn	Phe	Cys	Gly	Arg	Asn	Arg	Val
							95			100				105
Ser	Leu	Met	Cys	Pro	Ser	Trp	Ser	Pro	Glu	Leu	Lys	Gln	Ser	Thr
							110			115				120
Cys	Leu	Ser	Leu	Pro	Lys	Cys	Trp	Asp	Tyr	Arg	Arg	Ala	Ala	Val
							125			130				135
Pro	Gly	Leu	Phe	Ile	Leu	Phe	Phe	Leu	Arg	His	Arg	Cys	Pro	Thr
							140			145				150
Leu	Thr	Gln	Asp	Glu	Val	Gln	Trp	Cys	Asp	His	Ser	Ser	Leu	Gln
							155			160				165
Pro	Ser	Thr	Pro	Glu	Ile	Lys	His	Pro	Pro	Ala	Ser	Ala	Ser	Gln
							170			175				180
Val	Ala	Gly	Thr	Lys	Asp	Met	His	His	Tyr	Thr	Trp	Leu	Ile	Phe
							185			190				195
Ile	Phe	Ile	Phe	Asn	Phe	Leu	Arg	Gln	Ser	Leu	Asn	Ser	Val	Thr
							200			205				210
Gln	Ala	Gly	Val	Gln	Trp	Arg	Asn	Leu	Gly	Ser	Leu	Gln	Pro	Leu
							215			220				225
Pro	Pro	Gly	Phe	Lys	Leu	Phe	Ser	Cys	Pro	Ser	Leu	Leu	Ser	Ser
							230			235				240
Trp	Asp	Tyr	Arg	Arg	Pro	Pro	Arg	Leu	Ala	Asn	Phe	Phe	Val	Phe
							245			250				255
Leu	Val	Glu	Met	Gly	Phe	Thr	Met	Phe	Ala	Arg	Leu	Ile	Leu	Ile
							260			265				270
Ser	Gly	Pro	Cys	Asp	Leu	Pro	Ala	Ser	Ala	Ser	Gln	Ser	Ala	Gly
							275			280				285
Ile	Thr	Gly	Val	Ser	His	His	Ala	Arg	Leu	Ile	Phe	Asn	Phe	Cys
							290			295				300
Leu	Phe	Glu	Met	Glu	Ser	His	Ser	Val	Thr	Gln	Ala	Gly	Val	Gln
							305			310				315
Trp	Pro	Asn	Leu	Gly	Ser	Leu	Gln	Pro	Leu	Pro	Pro	Gly	Leu	Lys
							320			325				330
Arg	Phe	Ser	Cys	Leu	Ser	Leu	Pro	Ser	Ser	Trp	Asp	Tyr	Gly	His
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Leu	Pro	Pro	His	Pro	Ala	Asn	Phe	Cys	Ile	Phe	Ile	Arg	Gly	Gly
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Val	Ser	Pro	Tyr	Leu	Ser	Gly	Trp	Ser	Gln	Thr	Pro	Asp	Leu	Arg
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Pro	Asp	Ile	Glu	Asn	Glu	Asp	Phe	Ile	Lys	Asp	Cys	Val	Arg	Ile	
				20					25						30
His	Asn	Lys	Phe	Arg	Ser	Glu	Val	Lys	Pro	Thr	Ala	Ser	Asp	Met	
				35					40						45
Leu	Tyr	Met	Thr	Trp	Asp	Pro	Ala	Leu	Ala	Gln	Ile	Ala	Lys	Ala	
				50					55						60
Trp	Ala	Ser	Asn	Cys	Gln	Phe	Ser	His	Asn	Thr	Arg	Leu	Lys	Pro	
				65					70						75
Pro	His	Lys	Leu	His	Pro	Asn	Phe	Thr	Ser	Leu	Gly	Glu	Asn	Ile	
				80					85						90
Trp	Thr	Gly	Ser	Val	Pro	Ile	Phe	Ser	Val	Ser	Ser	Ala	Ile	Thr	
				95					100						105
Asn	Trp	Tyr	Asp	Glu	Ile	Gln	Asp	Tyr	Asn	Phe	Lys	Thr	Arg	Ile	
				110					115						120
Cys	Lys	Lys	Val	Cys	Gly	His	Tyr	Thr	Gln	Val	Val	Trp	Ala	Asp	
				125					130						135
Ser	Tyr	Lys	Val	Gly	Cys	Ala	Val	Gln	Phe	Cys	Pro	Lys	Val	Ser	
				140					145						150
Gly	Phe	Asp	Ala	Leu	Ser	Asn	Gly	Ala	His	Phe	Ile	Cys	Asn	Tyr	
				155					160						165
Gly	Pro	Gly	Gly	Asn	Tyr	Pro	Thr	Trp	Pro	Tyr	Lys	Arg	Gly	Ala	
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Thr	Cys	Ser	Ala	Cys	Pro	Asn	Asn	Asp	Lys	Cys	Leu	Asp	Asn	Leu	
				185					190						195
Cys	Val	Asn	Asp	Ser	Glu	Thr	Lys	Ser	Asn	Val	Thr	Thr	Met	Leu	
				200					205						210
Tyr	Ile	Arg	Leu	Ala	His	Ile	Ser	Thr							
				215											